

~~ABSTRACT~~

A FIBRE REINFORCED METAL ROTOR

5 A fibre reinforced metal compressor disc (42) comprises a hub (44), a rim (46) and a diaphragm (48) extending radially between the hub (44) and the rim (46). The fibre reinforced metal compressor disc (40) comprises a first ring of ceramic fibres (52) and a second ring of ceramic fibres (56). The
10 first ring of fibres (52) is arranged in the hub (44) and the second ring of fibres (56) is arranged in the rim (46) of the disc (42). The rim (46) of the disc (42) carries a plurality of blades (50). This arrangement of the rings of fibres (52,56) minimises the weight of the disc, especially for
15 large radius discs suitable for carrying large blades and operating at high rotational speeds.

(Figure 3)